

What is claimed is:

1 1. A pointing input device comprising:

2 a display panel for displaying any pointing input information on a display area thereof;

3 a transparent protective plate laminated on the display area of the display panel;

4 a piezoelectric substrate attached to the transparent protective plate, for converting
5 deformation caused by a push against the transparent protective plate into an electric signal and
6 outputting the electric signal; and

7 an optical touch panel disposed on the transparent protective plate, for emitting light
8 beams for reticulately scanning an input operation area of the optical touch panel along orthogonal
9 X and Y directions to detect a pointing input and a pointing input position in the input operation
10 area when the light beams are intercepted by the pointing input, a display area of the input
11 operation area being visible through the transparent protective plate;

12 the pointing input device outputting pointing position data indicating the pointing input
13 position, while the optical touch panel detects the pointing input,

14 the pointing input device outputting push detection data together with the pointing position
15 data, when the electric signal is outputted from the piezoelectric substrate and the push against the
16 transparent protective plate is judged while the optical touch panel is detecting the pointing input.

1 2. A pointing input device comprising:

2 a display panel for displaying any pointing input information on a display area thereof;

3 a transparent protective plate laminated on the display area of the display panel;

4 a piezoelectric substrate attached to the transparent protective plate, for converting

5 deformation caused by a push against the transparent protective plate into an electric signal and
6 outputting the electric signal; and

7 an optical touch panel disposed on the transparent protective plate, for emitting light
8 beams for reticulately scanning an input operation area of the optical touch panel along orthogonal
9 X and Y directions to detect a pointing input and a pointing input position in the input operation
10 area when the light beams are intercepted by the pointing input, a display area of the input
11 operation area being visible through the transparent protective plate,

12 the pointing input device outputting pointing position data detected by the optical touch
13 panel when the electric signal is outputted from the piezoelectric substrate and the push against the
14 transparent protective plate is judged while the optical touch panel is detecting the pointing input.

1 3. The pointing input device according to claim 1, wherein the piezoelectric substrate
2 comprises a pair of piezoelectric substrates of narrow and elongated shape, and the piezoelectric
3 substrates are attached to the transparent protective plate and are orthogonal to each other.

1 4. The pointing input device according to claim 2, wherein the piezoelectric substrate
2 comprises a pair of piezoelectric substrates of narrow and elongated shape, and the piezoelectric
3 substrates are attached to the transparent protective plate and are orthogonal to each other.